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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/802,736	03/18/2004	Kanji Nakamura	1761.1022D 5049			
21171	7590 03/31/2005		EXAMINER			
STAAS & H. SUITE 700	STAAS & HALSEY LLP			SELF, SHELLEY M		
	1201 NEW YORK AVENUE, N.W.			PAPER NUMBER		
WASHINGTON, DC 20005			3725			

DATE MAILED: 03/31/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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-		Application No.		Applicant(s)				
Office Action Summary		10/802,736		NAKAMURA ET AL.				
		Examiner		Art Unit				
		Shelley Self		3725				
Period fe	The MAILING DATE of this communication aport Reply	pears on the cover s	sheet with the c	orrespondence addre	ss			
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Depriod for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however bly within the statutory minim will apply and will expire St e, cause the application to b	er, may a reply be tim num of thirty (30) days X (6) MONTHS from necome ABANDONEI	nely filed s will be considered timely, the mailing date of this comm O (35 U.S.C. § 133).	unication.			
Status								
1) 又	Responsive to communication(s) filed on 09 L	December 2004.						
2a)	This action is FINAL . 2b) This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-3 and 6-8 is/are pending in the approximate the approximate tion Papers Claim(s) 1-3 and 6-8 is/are rejected. Claim(s) 1-3 and 6-8 is/are rejected. Claim(s) 1-3 and 6-8 is/are rejected. Claim(s) 1-3 and 6-8 is/are objected to. Claim(s) 1-3 and 6-8 is/are objected to.	awn from considerat						
9)[The specification is objected to by the Examin	er.						
	The drawing(s) filed on <u>09 December 2004</u> is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	e drawing(s) be held in ction is required if the	n abeyance. See drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR	1.121(d).			
Priority	under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureation and Copies of the attached detailed Office action for a list	nts have been receiv nts have been receiv ority documents hav au (PCT Rule 17.2(a	ved. ved in Applicati ve been receive a)).	on No ed in this National Sta	age			
Attachmei	nt(s) ce of References Cited (PTO-892)	4) 🗍 ir	nterview Summary	(PTO-413)				
2) Noti	ce of Draftsperson's Patent Drawing Review (PTO-948)	P	aper No(s)/Mail D		52)			
	rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	·/	Other:		/			

SUPPLEMENTAL ACTION

Response to Amendment

The amendment filed on December 9, 2004 has been considered but is ineffective to overcome the prior art reference and an action on the merits follows. Upon further consideration the indication of allowable subject matter noted in the previous Office Action is withdrawn.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claims 2 and 3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. With regard to claim 2 it is not clear how the second piston defines a gap in cooperation with an end of the...mold when the second piston is held in position adjacent (i.e. Examiner understands adjacent to be next too, having a common end point) the cylindrical mold. For example, it there is a gap how can the two be adjacent? Clarification is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claim 1 is rejected under 35 U.S.C.(b) as being anticipated by McEwen (3,980,014) as noted in the previous Office Action.

Claims 2, 6 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by McEwen (3,980,014). McEwen discloses a grinding sludge machine comprising a press unit having a cylindrical mold (20) a first reciprocating piston (40, 42, 44, 46) movably inserted in the cylindrical mold, and a second reciprocating piston (50, 52, 54) arranged in face-to-face relation with the first reciprocating piston (fig. 1), a diameter of an end of the second piston (50, 54) facing an end of the cylindrical mold being larger than an inner diameter of the cylindrical mold. Examiner notes that it is inherent for the second piston diameter to be larger than the inner diameter of the mold so as to close/seal the mold during compression.

With regard to claim 2 as best as can be understood and claim 7, McEwen discloses a gap (22) defining a coolant drain passage, during operation of the machine, the end of the second piston is spaced from the end of the cylindrical mold to define a coolant drain passage (22). Examiner notes that the piston (50, 52, 54) is spaced from an end, as the mold has more than "an" end and such ends have not been positively defined. Therefore the piston (50, 52, 54) is spaced from an end (fig. 1) with a gap (22) drain passage therebetween.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over McEwen (3,980,014). McEwen does not disclose the second piston spaced from the end of the cylindrical mold at approximately 0.05 to 1.0 mm. It would have been obvious at the time of the invention to one having ordinary skill in the art to construct McEwen having a gap between 0.05-1.0mm because the discovering the optimum or workable range where general conditions of a claim are discloses requires only routine skill in the art and does not in itself impart patentability. See *In re Aller*, 105 USPQ 233.

Response to Arguments

Applicant's arguments filed December 9, 2004 have been fully considered but they are not persuasive. Applicants arguments are drawn to the failure of the prior art reference to disclose an apparatus for grinding sludge that results from grinding hardened component parts a cylindrical chamber/mold and a second piston having a diameter larger than the inner diameter of the compression chamber/mold (Remarks, pg. 7). These arguments are not found persuasive, because the prior art reference, McEwen states sludge resulting from tool waste, it is well known in the machining industry to construct tools of hardened steel, therefore the tool waste is that of hardened parts. Further as to the failure of McEwen to disclose a cylindrical mold, this is not found persuasive, because, fig. 1 illustrates the ends of the pistons/gaskets to be circular for closing/sealing the material to be compressed within the chamber, therefore the chamber must too be cylindrical as such piston/gasket configuration would not adequately close/seal the chamber during compression if the chamber were rectangular.

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Additionally regarding the argument that the second piston does not disclose an inner diameter larger than an inner diameter of the compression chamber/mold, this is not found persuasive, because the end of the second piston encompasses gasket (54), i.e. the gasket is part of the end of the piston. Therefore having a diameter of the second piston larger that the inner diameter of the compression chamber. Accordingly, McEwen does disclose the claimed invention and therefore anticipates the invention. The rejection is proper and stands.

Conclusion

Due to the newly cited rejection(s) above this Office Action is made non-Final.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shelley Self whose telephone number is (571) 272-4524. The examiner can normally be reached Mon-Fri from 8:30am to 5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Derris Banks can be reached at (571) 272-4419. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular and After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIE or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700